GFM-C Series

6GFM-50 12V50Ah

GFM-C series VRLA battery uses latest AGM technology, high purity raw materials and many patented technologies that ensure its long floating and cycle life, it is applicable to less frequency of power failure, and shallow discharge of depth site. It is mainly used for indoor telecommunication base station.

Benefits

- Long life according to EUROBAT Classification
- High discharge performance
- 99%+ gas recombination efficiency
- Maximum charge efficiency
- Low self-discharge rate
- Horizontal or Vertical installization

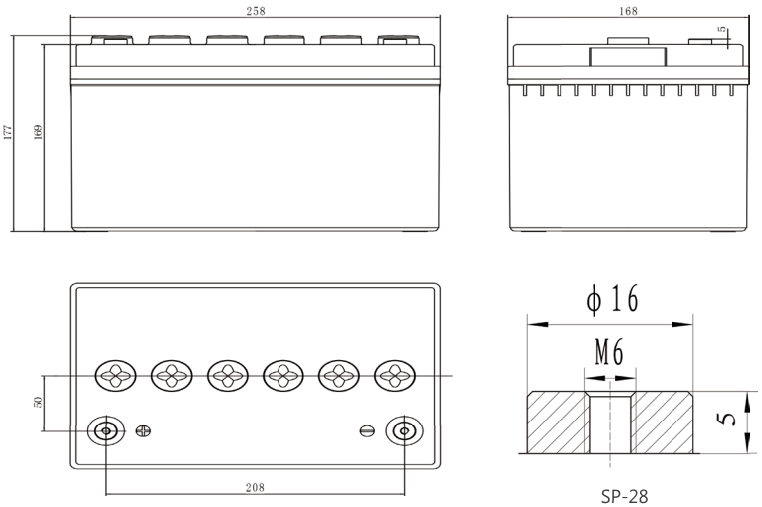
Applications

- Telecommunications
- Power system
- UPS
- Emergency power

Standards

- IEC 60896-21/22
- JIS C8704-1/2
- EUROBAT guide

Drawing



Specifications

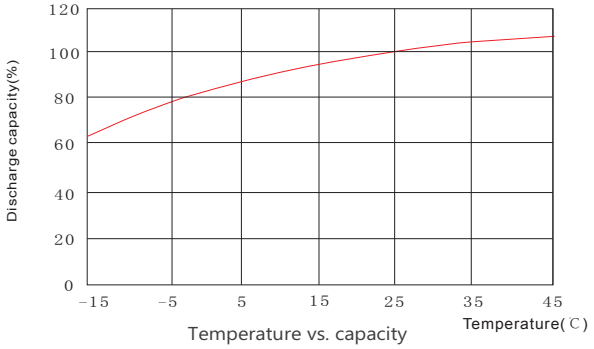
Battery Model	6GFM-50			
Design Life (years, 25℃)	10			
Capacity (Ah, 25℃)	10HR (5A, 1.80V)	5HR (8.48.A, 1.80V)	3HR (12.5A, 1.80V)	1HR (27.5A, 1.75V)
	50	42.4	37.5	27.5
Dimensions (mm)	Length	Width	Height	Total Height
	258	168	169	177
Approx. Weight (kg)	16.6			
Reference Internal Resistance (mΩ)	6.8 (fully charged @ 25℃)			
Maximum Discharge Current (A/1 Sec.)	400			
Self-Discharge (25℃)	⩽2% per months			
Charge Voltage (V/cell, 25℃)	Cycle use		Float use	
	2.40(-3.5mV/℃/cell), max charge current: 12.5A		2.27(-3.5mV/℃/cell)	
Short Circuit Current (A)	1750			

Discharge Data

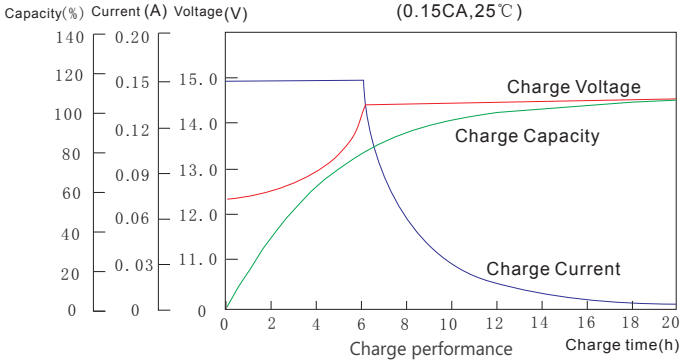
Constant Current Discharge Data (25℃, A)																
End Voltage (V/cell)	min							h								
	5	10	15	20	30	40	50	1	1.5	2	3	4	5	6	8	10
1.60	168.2	124.0	100.1	83.01	56.72	43.58	35.65	31.03	23.09	18.51	14.01	11.14	9.41	8.01	6.31	5.27
1.65	154.3	117.0	94.71	78.54	55.02	42.27	34.58	30.03	22.59	18.10	13.61	10.89	9.16	7.85	6.21	5.22
1.70	141.8	109.3	88.55	73.30	53.36	41.01	33.54	28.53	22.02	17.63	13.26	10.54	8.93	7.70	6.11	5.15
1.75	128.6	101.6	83.01	69.45	51.77	39.77	32.53	27.50	21.59	17.16	12.85	10.21	8.70	7.51	6.01	5.08
1.80	118.6	96.3	78.58	65.80	50.20	38.58	31.55	26.60	21.04	16.60	12.50	9.981	8.48	7.31	5.89	5.00

Constant Power Discharge Data (25℃, W/cell)																
End Voltage (V/cell)	min							h								
	5	10	15	20	30	40	50	1	1.5	2	3	4	5	6	8	10
1.60	281.1	215.8	173.2	142.7	101.9	82.9	68.5	58.9	44.30	35.94	26.38	21.19	18.83	15.86	12.42	10.39
1.65	261.8	203.4	165.7	136.3	98.8	80.1	66.7	57.2	43.21	35.12	25.91	20.81	18.46	15.63	12.32	10.32
1.70	246.4	192.5	156.1	128.9	95.0	77.6	64.7	55.6	42.19	34.38	25.53	20.34	18.10	15.45	12.17	10.24
1.75	225.6	180.8	148.9	123.3	91.2	74.0	62.3	54.2	41.05	33.83	25.04	19.99	17.73	15.24	12.01	10.14
1.80	207.9	167.8	139.8	117.5	87.3	70.5	59.3	52.9	40.26	33.28	24.62	19.66	17.37	15.06	11.89	10.06

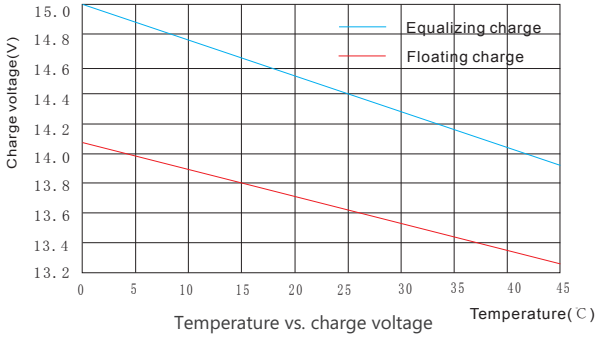
Performance Curve



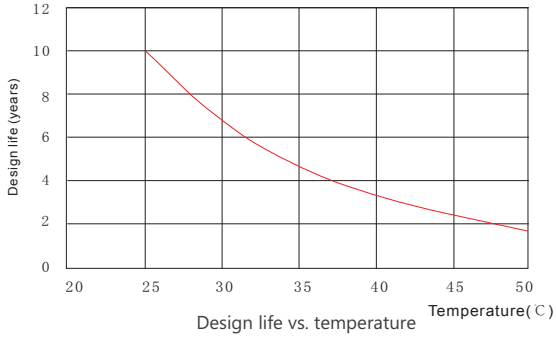
Temperature vs. capacity



Charge performance



Temperature vs. charge voltage



Design life vs. temperature

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